RCRA Corrective Action GPRA Facility Progress Template- MS Word

Due Fri, April 13th

Facility Name	Navy-Northrop Grumman
Facility Location	Bethpage, NY
EPA ID Number	NYD002047967
Human Exposure EI (CA725) Met?	No
Groundwater EI (CA750) Met?	No
Sitewide Remedy Construction (CA550) Met? If not, expected by 2020?	No

Facility Description: The combined Northrop Grumman, formerly Grumman Aerospace, (and former Naval Weapons Industrial Reserve Plant Site Facility is situated on 605 acres in the Town of Oyster Bay, Bethpage, N.Y. Approximately 105 of the 605 acres are occupied by the Naval Weapons Industrial Reserve Plant, a government -owned, contractor -operated facility.

The Northrop Grumman Corporation was established in the early 1930s, and Naval Weapons Industrial Reserve Plant -Bethpage was established in 1941. Activities conducted at the facility included engineering, administrative, research and development, and testing operations, as well as manufacturing operations for the Navy and the National Aeronautics and Space Administration (NASA). The facility also had an active airfield. Both Northrop Grumman and the Naval Weapons Industrial Reserve Plant had numerous industrial groundwater supply wells and recharge basins. The manufacturing portion of the Northrop Grumman and the complete Naval Weapons Industrial Reserve Plant facility are now closed.

The facility is surrounded by industrial and commercial facilities along with several residential communities. There are several public and private water supply wells located within a two-mile radius of the facility. All water supplies are drawn from the Nassau-Suffolk aquifer system, which was designated a sole-source aquifer by EPA in 1975.

Cleanup Progress to Date:

Northrop Grumman installed and operates an Onsite Containment System (ONCT), located on the southern side of the former Grumman and Navy site to help control off-site migration of contaminated groundwater that is within site boundaries. Northrop Grumman also began operating a containment system as an interim measure at the southern boundary of Bethpage Park since December 2009, with periodic shutdowns for maintenance. It is too early to evaluate its performance of the containment system south of Bethpage Park.

Southeast of the site, the Navy constructed an off-site groundwater hot spot remediation system (GM-38 Area) which was completed in December 2009 and is currently in operation. The Navy is planning installation of monitoring wells which will be used to improve the ongoing assessment of the migration of contaminated groundwater. This groundwater monitoring program also contains a program to determine the need for treatment of public water supplies, where necessary.

Additionally, the Navy re-evaluated the technical economic feasibility of a full offsite and downgradient containment option for preventing the contaminated groundwater from spreading further. In January 2012, the Navy issued a report on its findings regarding plume containment and other options. This report is being reviewed independently by the USGS, Battelle, and the US Army Corps of Engineers.

Additionally, on July 27, 2011, the New York State Department of Environmental Conservation and the New York State Department of Health approved the Navy's *Residential Soil Vapor Intrusion Home Evaluation and Residential Summary Report* (January – March 2011) for the off-site residential area east of the Navy's Site 1, the Former Drum Marshalling Area. Due to vapor intrusion of VOCs east of Site 1, Air Purifying Units (APUs) had been installed on thirteen homes and sub-slab depressurization systems (SSDs) had been installed on six homes. Subsequent testing indicated that indoor air and sub-slab concentrations at all homes were now below the NYSDOH guideline values. The conclusion of the report was that the APUs and SSDs could be discontinued at individual homes. This was conditioned on the Navy continuing to operate the existing soil vapor extraction system at Site 1 in order to control the source, and continuing to monitor the vacuum field created in the residential neighborhood on a routine basis." The Navy also plans to expand the soil vapor extraction system to increase the source control efficiency.

Next Steps (< 1 year, dates if possible):

Completion of the recommendations of the Navy's report. Reaching a consensus with the Water Districts, especially the Massapequa Water District, regarding the plan for water supply protection.

Future Activities and Expected Outcomes (>1 year, month/year if possible): Same as above, as it may be long-term.